FIRST Valve Assembly/Operating Instructions

FIRST Valve Assembly Components

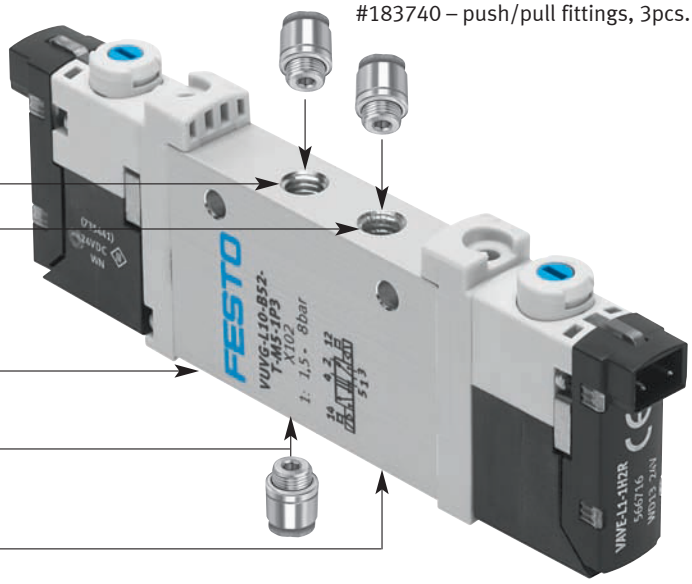
• #566475–24V double solenoid valve	– VUVG-L10-B52-T-M7-1P3	– 1 pc.
• #183740–push/pull fitting, M5 thread	– QSM-M7-1/4-I-U-M	– 3 pcs.
• #566716 –e-box	– VAVE-L1-1H2-LR	– 2 pcs.
• #566654 –1/2 meter cable	– NEBV-H1G2-KN-0.5-N-LE2	– 2 pcs.

Basic Valve Data

The VUVG-L10-B52-T-M7-1P3 is a 5/2 dual solenoid piloted valve. The valve has M7 ports and is operated with a 24V DC signal. The maximum air flow is 13.4 cfm. The weight of the valve including the fittings and cables is 0.2 lbs.

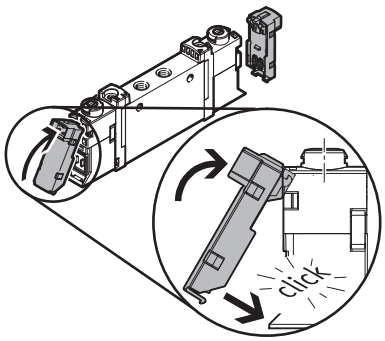
Typical Pneumatic Connection

The pneumatic connection for typical cylinder would be as follows:


#183740 – push/pull fittings, 3pcs.
Port 4 – To cylinder back end (insert fitting here)
Port 2 – To cylinder front end (insert fitting here)
Port 5 – Exhaust from port 4 (to atmosphere)
Port 1 – Pressure supply (insert fitting here)
Port 3 – Exhaust from port 2 (to atmosphere)
FESTO
VUVG-L10-B52-T-M5-1P3
VAVE-L1-1H2R

Electrical Connection

Connect the e-box's (seperate component VAVE-..) to each end of the valve as shown in the picture below. After this connection is secured connect the supplied cables to the connectors. Attached one end of each cable to a +24V DC signal and the other to a 0V DC signal. When the valve is switched on the LED will turn on.



Wiring:

Red: +24V DC
Black: 0V DC

Operation

To extend the cylinder activate coil 14 for at least 30 mSec. To retract cylinder ativate coil 12 for at least 30 mSec. Following the activation time the coil can be deactivated without switching positions. Verify that both coils are not activated simultaneously. A minimum of 25 psi should be supplied Port 1.

Manual Override

To operate the valve without electrical current depress the blue button for a temporary time or depress and turn to maintain the activation. The valve will not return to original state unless it receives an electrical signal at the coil or manual override operation.

Festo Corporation

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